

Title (en)

METHOD FOR CHECKING THE FUNCTIONALITY OF A MEMORY ELEMENT

Title (de)

VERFAHREN ZUR ÜBERPRÜFUNG DER FUNKTIONSFÄHIGKEIT EINES SPEICHERELEMENTS

Title (fr)

PROCÉDÉ POUR CONTRÔLER LE BON FONCTIONNEMENT D'UN ÉLÉMENT DE MÉMOIRE

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Application

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Abstract (en)

[origin: WO2011104065A1] The invention relates to a method for checking the functionality of a memory element comprising a stack memory (SA), the stack memory (SA) occupying a defined area within the memory element, and a stack memory pointer being defined, which indicates in the form of an address a position of the stack memory (SA) from which data are currently taken or to which data are currently written. The invention is distinguished by the fact that in the memory element a section of defined length is delimited and used as auxiliary memory (HS) arranged outside a memory area to be checked, that before the start of a test program for checking the memory element the current address of the stack memory pointer is stored and the stack memory pointer is allocated an address which is assigned to the auxiliary memory (HS), such that the auxiliary memory (HS) is used as main memory during the test program, and that after the end of the test program the stack memory pointer is again allocated the address of that position which it indicated before the start of the test program.

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